KANIA
ANTRIEBSSYSTEME

PSII und PSIIR-Serie Planetengetriebe

PSII Planetengetriebe

Technische Daten

Einfache Montage

Geringes Laufgeräusch

Schutzklasse IP 65

Kompakte und steife Bauweise

Nenn-Abtriebsdrehmoment

T2N: 8 – 459 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 7 / 9 / 10

2-stufig:15 / 16 / 20 / 25 / 30 / 35 / 40 / 50 / 70 / 100

Geringes Verdrehspiel

1-stufig:6 – 8 Winkelminuten

2-stufig:8 – 10 Winkelminuten

Hoher Wirkungsgrad

1-stufig:≥ 97%

2-stufig:≥ 94%

Arbeitstemperatur

0°C bis 90°C mit Standardfett

Baugrößen

PSIIA / PSIIB / PSIIC / PSIID / PSIIE

Verwendung

Anwendungen im Maschinenbau, bei denen kostengünstige und gleichzeitig hochwertige Planetengetriebe gefordert sind.

PSIIR Winkelplanetengetriebe

Technische Daten

Einfache Montage

Geringes Laufgeräusch

Schutzklasse IP 65

Kompakte und steife Bauweise

Nenn-Abtriebsdrehmoment

T2N: 8 – 459 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 7 / 9 / 10

2-stufig:15 / 16 / 20 / 25 / 30 / 35 / 40 / 50 / 70 / 100

Geringes Verdrehspiel

1-stufig:10 – 12 Winkelminuten

2-stufig:12 – 14 Winkelminuten

Hoher Wirkungsgrad

1-stufig:≥ 93%

2-stufig:≥ 90%

Arbeitstemperatur

0°C bis 90°C mit Standardfett

Baugrößen

PSIIRA / PSIIRB / PSIIRC / PSIIRD / PSIIRE

Verwendung

Anwendungen im Maschinenbau, bei denen kostengünstige und gleichzeitig hochwertige Planetengetriebe gefordert sind.

PSII / PSIIR Spezifikationen

Model No.		Stages	Ratio[1]	Type	PSII A / PSIIR A	PSII B / PSIIR B	PSII C / PSIIR C	PSII D / PSIIR D	PSII E / PSIIR E
Nominal Output Torque T_{2N}	Nm	1	3	All	16	42	110	217	430
			4		16	42	113	223	440
			5		15	40	118	220	435
			7		12	35	96	198	366
			9		8	24	60	125	273
			10		10	27	68	155	295
		2	15		15	40	109	213	424
			16		16	42	116	228	452
			20		16	42	116	230	454
			25		15	40	123	228	450
			30		15	40	108	212	422
			35		12	35	100	206	382
			40		16	43	117	232	459
			50		15	40	123	228	450
			70		12	35	100	206	382
			81		8	24	59	131	285
			100		10	27	70	162	308
Emergency Stop Torque T_{2NOT}	Nm	1,2	3~100	All	3 times T_{2N}				
Max. Acceleration Torque T_{2B}	Nm	1,2	3~100	All	T_{2B} = 60% of T_{2NOT}				
No Load Running Torque[4]	Nm	1	3~10	PSII	0.05	0.10	0.40	0.80	2.50
				PSIIR	0.10	0.15	0.45	0.85	2.55
		2	15~100	PSII	0.05	0.10	0.30	0.40	0.80
				PSIIR	0.10	0.15	0.35	0.45	0.85
Backlash[2]	arcmin	1	3~10	PSII	≦ 8	≦ 7	≦ 6	≦ 6	≦ 6
				PSIIR	≦ 12	≦ 11	≦ 10	≦ 10	≦ 10
		2	15~100	PSII	≦ 10	≦ 9	≦ 8	≦ 8	≦ 8
				PSIIR	≦ 14	≦ 13	≦ 12	≦ 12	≦ 12
Torsional Rigidity	Nm/arcmin	1,2	3~100	All	0.6	1.5	6	10.5	18
Nominal Input Speed n_{1N}	rpm	1,2	3~100	All	4,500	4,000	3,600	3,600	2,500
Max. Input Speed n_{1B}	rpm	1,2	3~100	All	8,000	6,000	6,000	4,800	3,600
Max. Radial Load F_{2rB}[3]	N	1,2	3~100	All	840	1,290	1,510	3,780	5,420
Max. Axial Load F_{2aB}[3]	N	1,2	3~100	All	420	645	755	1,890	2,710
Service Life[5]	hr	1,2	3~100	All	20,000				
Operating Temp	° C	1,2	3~100	All	0° C~ +90° C				
Degree of Gearbox Protection		1,2	3~100	All	IP65				
Lubrication		1,2	3~100	All	Synthetic lubrication grease				
Mounting Position		1,2	3~100	All	All directions				
Running Noise[4]	dB(A)	1,2	3~100	PSII	≦ 60	≦ 62	≦ 64	≦ 66	≦ 68
				PSIIR	≦ 70	≦ 72	≦ 74	≦ 75	≦ 77
Max. bending moment based on the gearbox input flange Mb[6]	Nm	1,2	3~100	PSII	5	12	22	45	54
				PSIIR	3	6	10	17	19
Efficiency η	%	1	3~10	PSII	≧ 97%				
				PSIIR	≧ 93%				
		2	15~100	PSII	≧ 94%				
				PSIIR	≧ 90%				

(1) Ratio (i= N_{in} / N_{out}) .

(2) Backlash is measured at 2% of Nominal Output Torque T_{2N}.

(3) Applied to the output shaft center at 100 rpm.

(4) These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm without load, By ratio smaller than 10, the noise value would be 3-5dB higher.

(5) For continuous operation, the service life time is less than 10,000 hrs.

(6) Max. motor weight* (kg) = $\frac{0.1 \times Mb}{\text{motor length (m)}}$

*with symmetrically distributed motor weight

*with horizontal and stationary mounting

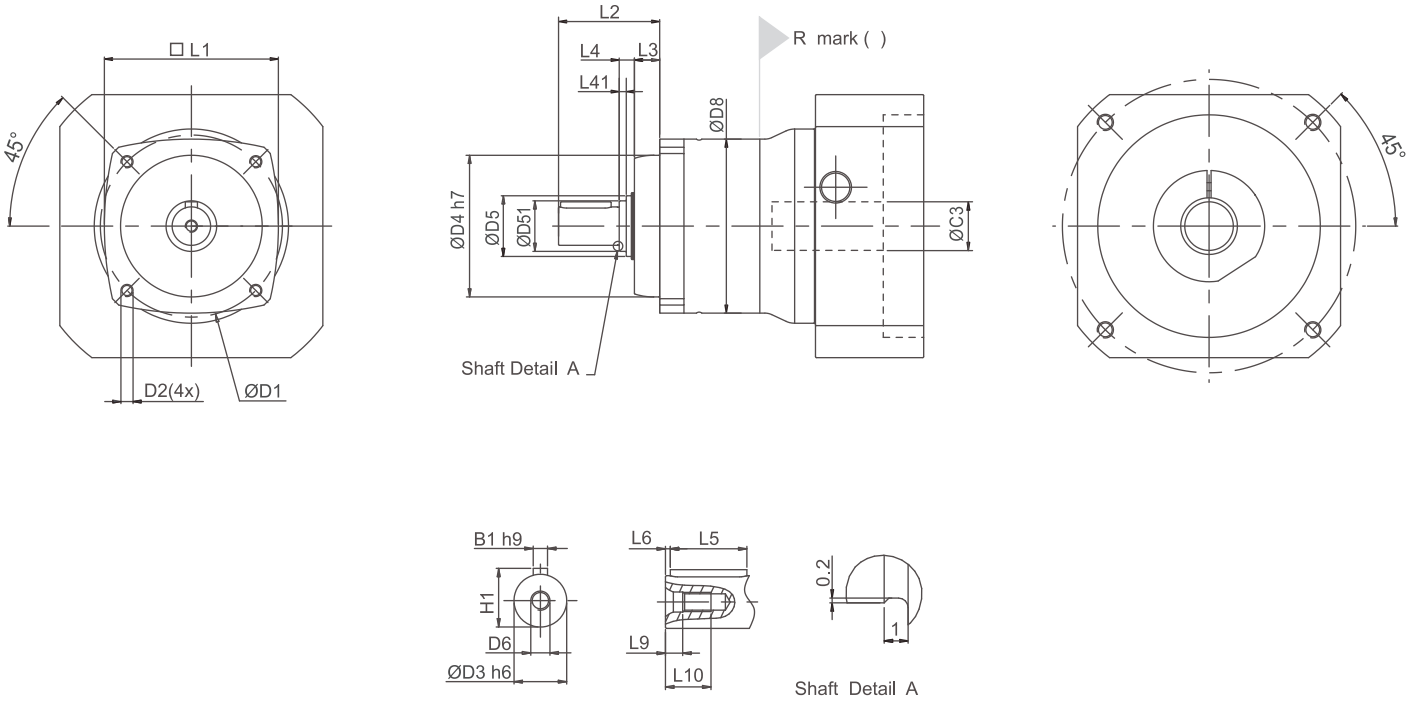
Massenträgheitsmoment PSII

Model No.		PSII A		PSII B		PSII C		PSII D		PSII E	
Ø(A) (C3)		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
8	kg.cm²	0.10	0.10	0.12	0.10	-	-	-	-	-	-
11		0.16	0.16	0.19	0.16	-	-	-	-	-	-
14		-	-	0.22	0.20	0.36	0.24	-	-	-	-
19		-	-	1.53	1.51	1.70	1.58	2.20	1.73	-	2.18
24		-	-	-	-	2.24	2.12	2.74	2.27	4.52	2.73
28		-	-	-	-	2.68	2.55	3.17	2.70	4.94	3.15
32		-	-	-	-	-	-	7.77	7.30	9.70	7.91
35		-	-	-	-	-	-	10.80	10.30	12.80	11.00
38		-	-	-	-	-	-	14.00	13.50	16.00	14.20
42		-	-	-	-	-	-	-	-	24.50	-

Massenträgheitsmoment PSIIR

Model No.		PSIIR A		PSIIR B		PSIIR C		PSIIR D		PSIIR E	
Ø(A) (C3)		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
8	kg.cm²	0.18	0.18	0.36	0.36	-	-	-	-	-	-
11		0.20	0.20	0.39	0.39	-	-	-	-	-	-
14		-	-	0.43	0.43	1.87	1.87	-	-	-	-
19		-	-	1.24	1.24	2.67	2.67	6.80	6.80	-	13.57
24		-	-	-	-	2.97	2.97	7.10	7.10	13.87	13.87
28		-	-	-	-	3.47	3.47	7.59	7.59	14.36	14.36
32		-	-	-	-	-	-	10.56	10.56	17.33	17.33
35		-	-	-	-	-	-	11.97	11.97	18.74	18.74
38		-	-	-	-	-	-	13.95	13.95	20.79	20.79
42		-	-	-	-	-	-	-	-	26.54	-

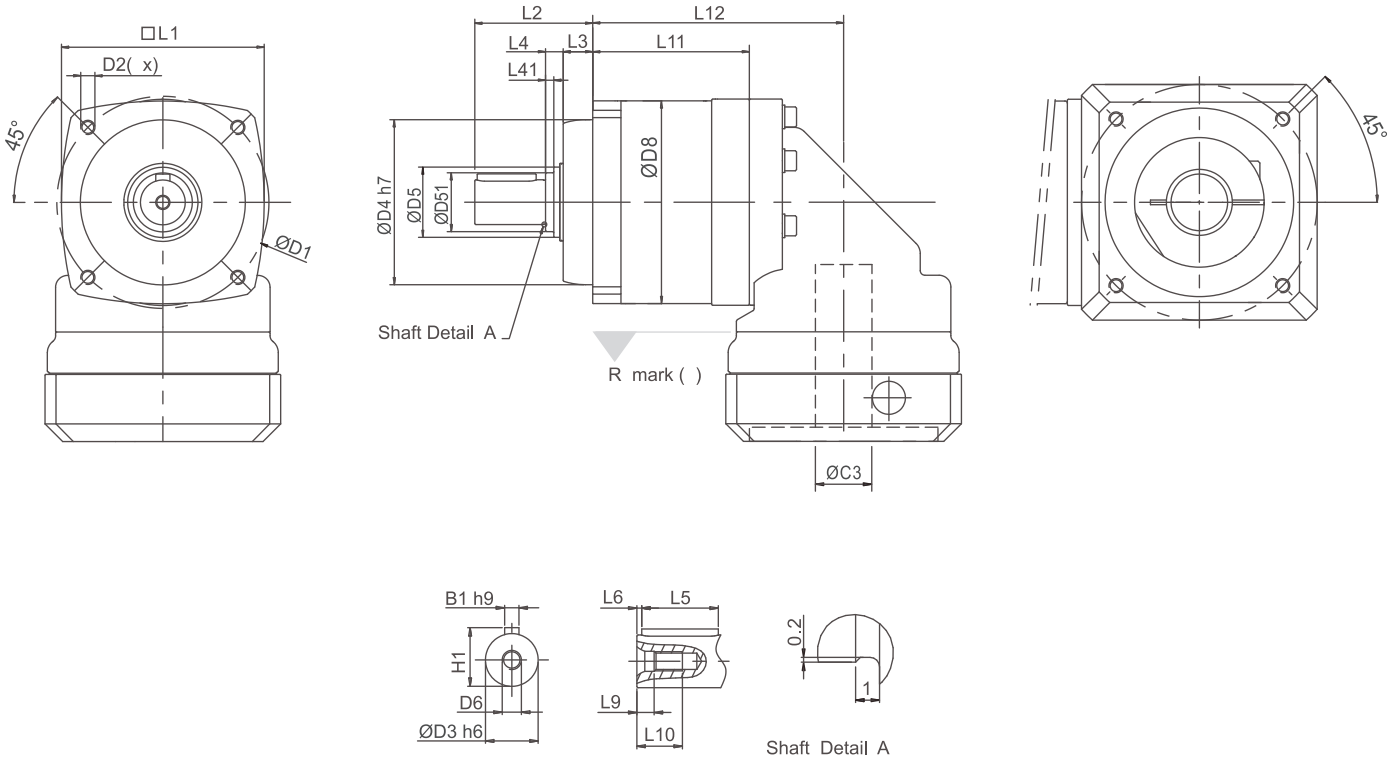
PSII Abmessungen



Dimension		PSII A		PSII B		PSII C		PSII D		PSII E	
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1		47		60		90		115		135	
D2		M4X9		M5X10		M6X12		M8X18.5		M10X18	
D3	h6	10		12		19		24		32	
D4	h7	38		50		70		90		110	
D5		17		22		30		40		55	
D51		-		-		25		-		-	
D6		M3X0.5P		M4X0.7P		M6X1P		M8X1.25P		M12X1.75P	
D8		44		60		86		114		140	
L1		44		60		86		114		140	
L2		25		32		50		61		75	
L3		6.5		8.5		12.5		16		14.5	
L4		2.5		3.5		7.5		5		5.5	
L41		-		-		3.5		-		-	
L5		10		16		25		32		50	
L6		3		2		1		3		2	
L9		2.6		4.5		5		7.2		10	
L10		9		10		16.5		19		28	
B1	h9	3		4		6		8		10	
H1		11.2		13.5		21.5		27		35	

(1) Dimensions are related to motor interface.

PSIIR Abmessungen



Dimension		PSIIR A		PSIIR B		PSIIR C		PSIIR D		PSIIR E	
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1		47		60		90		115		135	
D2		M4X9		M5X10		M6X12		M8X18.5		M10X18	
D3	h6	10		12		19		24		32	
D4	h7	38		50		70		90		110	
D5		17		22		30		40		55	
D51		-		-		25		-		-	
D6		M3X0.5P		M4X0.7P		M6X1P		M8X1.25P		M12X1.75P	
D8		44		60		86		114		140	
L1		44		60		86		114		140	
L2		25		32		50		61		75	
L3		6.5		8.5		12.5		16		14.5	
L4		2.5		3.5		7.5		5		5.5	
L41		-		-		3.5		-		-	
L5		10		16		25		32		50	
L6		3		2		1		3		2	
L9		2.6		4.5		5		7.2		10	
L10		9		10		16.5		19		28	
L11		47	62	56	76	66.5	93	92	128	116	163.5
L12		72	87	85.5	105.5	106.5	133	143	179	173	220.5
B1	h9	3		4		6		8		10	
H1		11.2		13.5		21.5		27		35	

(1) Dimensions are related to motor interface.